

**National Science Foundation FY 2006 Request
Summary of Major Changes by Account**

(Dollars in Millions)

NSF FY 2005 TOTAL FUNDING	\$5,473
Research and Related Activities	
<i>Biological Sciences</i>	+5
<i>Increases funding for complex environmental systems with emphasis on aquatic and watershed systems, biological databases and informatics, Broadening Participation activities, microbial biology research, FIBR support on complex, multidimensional biology and grants for early career and mid-career researchers.</i>	
<i>Computer and Information Science and Engineering</i>	+7
<i>Increases support for developing software and hardware architectures, redesigning current network systems, developing sensor systems, promoting advances in science and engineering informatics, and increasing core funding rates. In addition, support will continue for the Extensible Terascale Facility and other cyberinfrastructure resources.</i>	
<i>Engineering</i>	+19
<i>Funds CLEANER planning activities, transition from construction to operations for NEES, Integrative Systems research, research into how students learn engineering, and targets Security Technology research.</i>	
<i>Geosciences</i>	+15
<i>Increases funding for natural hazards and extreme events research. HIAPER and AMISR become fully operational, as operations ramp up for EarthScope. A major effort will be made to facilitate linkages across NSF programs to promote education and diversity.</i>	
<i>Mathematical and Physical Sciences</i>	+16
<i>Increases funding for core research and education programs; develops research resources and facilities of the future; prepares the next generation of scientists and researchers; and broadens participation in MPS programs. Themes to be emphasized include: Physics of the Universe, Fundamental Mathematical and Statistical Science, Physical Sciences at the Nanoscale, Cyberinfrastructure and the Cyberscience it Enables, and the Molecular Basis of Life Processes.</i>	
<i>Social, Behavioral and Economic Sciences</i>	+2
<i>Augments support for Human and Social Dynamics priority area with particular goal of increasing the number of awards funded; increases support for Broadening Participation activities; SRS survey redesigns; reallocates funds to a range of core research activities from sunseting programs and Centers funding.</i>	
<i>Office of International Science and Engineering</i>	+1
<i>Funding increases enhance support for the Human and Social Dynamics priority area, reflecting a heightened focus on international research. Additional funds are focused on broadening participation, particularly to encourage women and underrepresented groups to enter graduate programs, complete advanced degrees, and incorporate international experiences in their academic careers.</i>	
<i>Office of Polar Programs</i>	+43
<i>Funds icebreaking activities previously supported by U.S. Coast Guard.</i>	
<i>Integrative Activities</i>	+5
<i>Funds a second cohort of up to four Science of Learning Centers; enables two Science and Technology Centers initiated in FY 2005 to become fully operational; and increases support for the acquisition of research instrumentation.</i>	
Subtotal, R&RA	+113
Education and Human Resources	-104
<i>Funding for the Experimental Program to Stimulate Competitive Research, graduate fellowships and traineeships, and most Human Resource Development (HRD) programs is maintained at a level similar to FY 2005. Funding for the Math and Science Partnership will support awards made in previous years. No new partnership awards will be made in FY 2006. The Teacher Professional Continuum, Instructional Materials Development, Centers for Learning and Teaching, Scholarships for Service, National STEM Education Digital Library and Course, Curriculum and Laboratory Improvement programs are decreased. No new REC awards are expected in FY 2006.</i>	
Major Research Equipment and Facilities Construction	+76
<i>Provides FY 2006 funding for five ongoing projects: ALMA, EarthScope, IceCube, RSVP, Scientific Ocean Drilling Vessel.</i>	
Salaries and Expenses	+46
<i>Funds an additional 23 FTE and provides increases for key IT systems and security upgrades.</i>	
National Science Board	0
Office of Inspector General	+1
<i>Funds the annual audit of NSF's financial statements; in prior years this funding was provided in the NSF budget.</i>	
Total Change, NSF	+132
NSF FY 2006 REQUEST	\$5,605